

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Nelson Bend

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Nelson Bend

Waterway			Bank	Unit Miles
Unit No. 01 Feather River West Levee - Nelson Bend				0.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	Sterling York			
Accompanied By	Steve Beckley			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	04/04/2018 04/04/2018	Sterling York

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_ST0006_01_s _ 2014_9				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has copies of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_ST0006_01_s _ 2014_10				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has flood fight supplies on hand at their equipment yard.					

No Photos

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_ST0006_01_s _ 2014_11				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has attended flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	04/04/2018 04/04/2018	Sterling York

LM Start	0.00	Rating **	U	Issue No.	7
LM End	0.00	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.887059 °	38.887059 °
				-121.614715 °	-121.614715 °
DWR ID	DWR_ST0006_01_f_2012_7				
Comment Code					
FE : Fence					
Inspector Comment					
A landowner has constructed a gate on the crown that hinders inspection of this unit. Met with landowner to perform spring 2015 inspection, and he should be contacted to open the gate for future inspections. The land owner is David Lowry his phone number is (925) 606-2403. He will open the gate for inspections but will not allow the LMA to put a lock on the gate, and the LMA does not do any maintenance to this levee.					

Photo 1 of 1 : SP_2018_ST0006_471_7_20180409_00011.jpg



View of fence and gate at the upstream end of the levee, only the land owner has the key for the lock on the gate. Spring 2018.

LM Start	0.02	Rating **	U	Issue No.	15
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.886883 °	38.881287 °
				-121.614797 °	-121.614490 °
DWR ID	DWR_ST0006_01_f_2015_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the annual vegetation and wild growth. Spring 2018.					

Photo 1 of 1 : SP_2018_ST0006_471_15_20180409_00012.jpg



View of the vegetation along the waterside slope looking downstream, Spring 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	04/04/2018 04/04/2018	Sterling York

LM Start	0.02	Rating **	U	Issue No.	2
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.886883 °	38.880833 °
				-121.614797 °	-121.614387 °
DWR ID	DWR_ST0006_01_f_2015_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the annual vegetation and wild growth. Spring 2018.					

Photo 1 of 1 : SP_2018_ST0006_471_2_20180409_00013.jpg



View of the vegetation along the landside slope looking downstream, Spring 2018.

LM Start	0.06	Rating **	M	Issue No.	4
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.886277 °	38.886277 °
				-121.615129 °	-121.615129 °
DWR ID	DWR_ST0006_01_s_2012_4				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.13	Rating **	U	Issue No.	1
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.885396 °	38.880295 °
				-121.615595 °	-121.614147 °
DWR ID	DWR_ST0006_01_f_2017_1				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up the trees 5 feet for access and visibility, Spring 2018.					

Photo 1 of 1 : SP_2018_ST0006_471_1_20180409_00015.jpg



View looking downstream waterside of the over growth of trees, Spring 2018.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	04/04/2018 04/04/2018	Sterling York

LM Start	0.13	Rating **	U	Issue No.	3
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.885396 °	38.880295 °
				-121.615595 °	-121.614147 °
DWR ID	DWR_ST0006_01_f_2017_3				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up the trees 5 feet for access and visibility, Spring 2018.					

Photo 1 of 1 : SP_2018_ST0006_471_3_20180409_00017.jpg



View looking downstream landside of the over growth of trees, Spring 2018.

LM Start	0.15	Rating **	M	Issue No.	5
LM End	0.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.885100 °	38.885100 °
				-121.615722 °	-121.615722 °
DWR ID	DWR_ST0006_01_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.16	Rating **	M	Issue No.	12
LM End	0.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884946 °	38.884946 °
				-121.615761 °	-121.615761 °
DWR ID	DWR_ST0006_01_s_2015_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Nelson Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	04/04/2018 04/04/2018	Sterling York

LM Start	0.18	Rating **	M	Issue No.	13
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884577 °	38.884577 °
				-121.615761 °	-121.615761 °
DWR ID	DWR_ST0006_01_s_2015_13				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.21	Rating **	M	Issue No.	14
LM End	0.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884151 °	38.884151 °
				-121.615732 °	-121.615732 °
DWR ID	DWR_ST0006_01_s_2015_14				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.34	Rating **	M	Issue No.	6
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.882398 °	38.882398 °
				-121.614966 °	-121.614966 °
DWR ID	DWR_ST0006_01_s_2012_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	04/04/2018 04/04/2018	Sterling York

LM Start	0.40	Rating **	U	Issue No.	16
LM End	0.46	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.881638 °	38.880795 °
				-121.614647 °	-121.614427 °
DWR ID	DWR_ST0006_01_f_2015_16				
Comment Code					
DE : Debris					
Inspector Comment					
The large pipe is still laying along the waterside berm, Spring 2018.					

Photo 1 of 1 : SP_2018_ST0006_471_16_20180409_00018.jpg



View of the pipe along the waterside berm looking downstream. Spring 2018.

LM Start	0.47	Rating **	U	Issue No.	8
LM End	0.47	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.880664 °	38.880664 °
				-121.614335 °	-121.614335 °
DWR ID	DWR_ST0006_01_s_2012_8				
Comment Code					
BU : Building					
Inspector Comment					
The building is directly behind the pipe that is laying along the waterside berm. Spring 2018.					

Photo 1 of 1 : SP_2018_ST0006_471_8_20180409_00019.jpg



View of the building directly behind the pipe on the waterside berm looking downstream. Spring 2018.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement